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Datasheet for 600-401-H20

ST2 Antibody

Overview

Description:	Anti-ST2 (RABBIT) Antibody - 600-401-H20
Item No.:	600-401-H20
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	ST2 antibody detects mouse ST2 and is common to all three isoforms. ST2 is a member of a superfamily containing the interleukin-1 receptor and the Toll-like receptors (TLRs). The TLRs are signaling molecules that recognize different microbial products during infection and serve as an important link between the innate and adaptive immune responses. ST2 was originally identified as a protein whose production was stimulated by various proliferation-inducing agents such as PDGF and FGF. More recently, it has been shown to negatively regulate IL-1 receptor and Toll-like receptor (TLR) 4 signaling and to maintain endotoxin tolerance. It has been suggested that the inhibition of TLR4 signaling occurs through the association and sequestering of TLR adaptor molecules such as MyD88 and TIRAP. Anti-ST2 antibodies are ideal for investigators involved in cytokine and growth factors research.
Synonyms:	Ly84, St2, Ste2, Interleukin-1 receptor-like 1, Interleukin-33 receptor alpha chain1, Lymphocyte antigen 84, Protein ST2, Protein T1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Il1rl1
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	ST2 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a synthetic peptide corresponding to amino acids at the n-terminus of mouse ST2. This peptide is common to all three known ST2 isoforms.
Purity/Specificity:	Anti-ST2 Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with ST2 with Human and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with ST2 from other sources has not been determined.
Relevant Links:	• NCBI - NP_001020773.1 • UniProtKB - P14719 • GeneID - 17082

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-ST2 Antibody has been tested in ELISA, WB, IF, and IHC. Expect a band approximately ~64.8kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1-2 ug/mL

Formulation

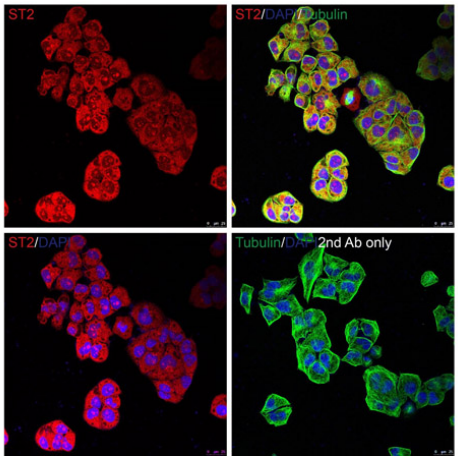
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

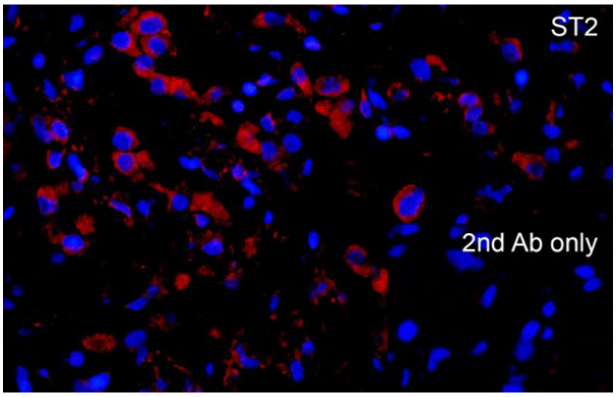
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

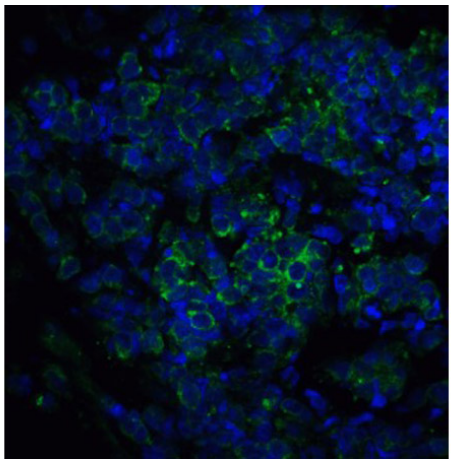
Images



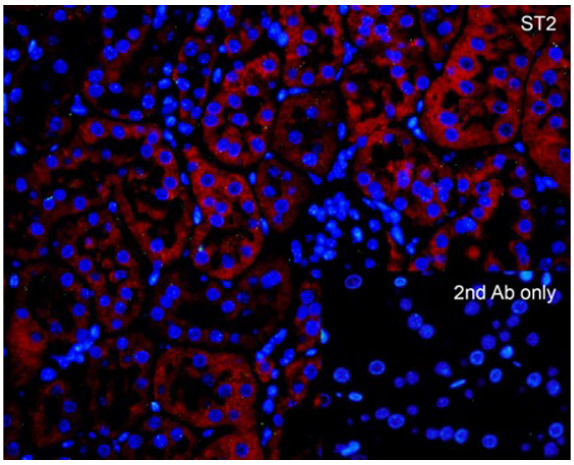
Immunofluorescence Microscopy
Immunofluorescence of ST2.
Cell: HeLa Cells.
Fixation: PFA-fixed,
Primary Antibody: Anti-ST2 at 20 µg/mL.
Secondary: goat anti-rabbit IgG secondary antibody at 1:1000 dilution (red) and DAPI staining (blue). Alpha tubulin was stained with anti-alpha tubulin antibody following by goat anti-mouse IgG secondary antibody (green). Images were captured with confocal microscopy.



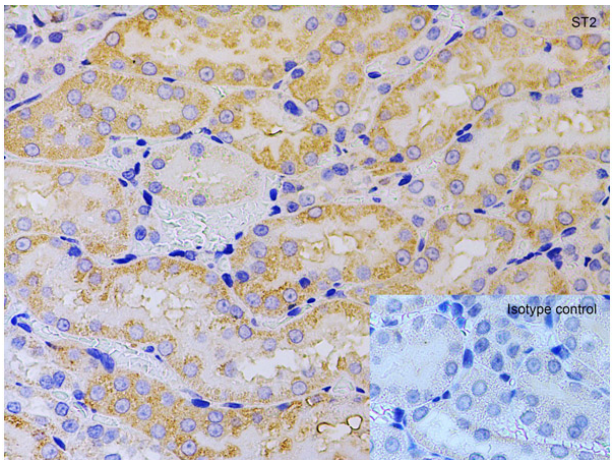
Immunofluorescence Microscopy
Immunofluorescence of ST2.
Tissue: Human Lung tissue.
Fixation: PFA-fixed.
Primary Antibody: Anti-ST2 at 10 µg/mL.
Secondary: goat anti-rabbit IgG secondary antibody at 1:1000 dilution (red) and DAPI staining (blue).



Immunofluorescence Microscopy
Immunofluorescence of ST2.
Tissue: Human Lung Cancer Tissue.
Fixation: 4% paraformaldehyde-fixed.
Primary Antibody: Anti-ST2 at 5 µg/mL.
Secondary: goat anti-rabbit IgG secondary antibody at 1:500 dilution (green) DAPI staining (blue).

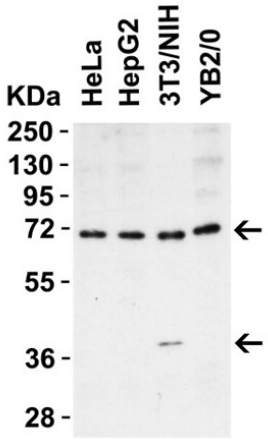


Immunofluorescence Microscopy
Immunofluorescence of ST2.
Tissue: mouse kidney tissue
Fixation: PFA-fixed.
Primary Antibody: Anti-ST2 at 10 µg/mL.
Secondary: goat anti-rabbit IgG secondary antibody at 1:1000 dilution (red) and DAPI staining (blue).

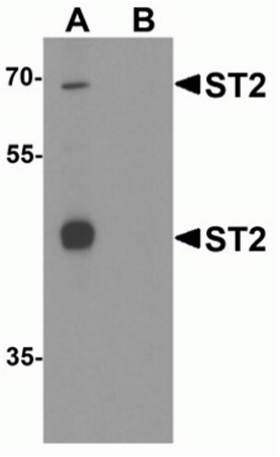


Immunohistochemistry
Immunohistochemistry of ST2.
Tissue: rat kidney tissue.
Fixation: paraffin-embedded, formaldehyde and blocked with 10% serum for 1 h at RT.
Antigen retrieval: heat mediation with a citrate buffer (pH6).

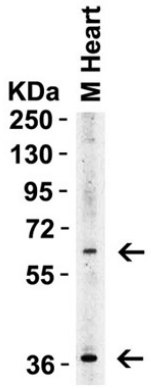
Priamry Antibody: anti-ST2 antibody at 5 µg/ml overnight at 4°C.
Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250. Counter stained with Hematoxylin.



Western Blot
Western Blot of ST2.
Load: 15 µg of Human, Mouse, or Rat lysate per lane. Lane 1: HeLa, Lane 2: HepG2, LAne 3: 3T3/NIH, Lane 4: YB2/0.
Primary Antibody: anti-ST2 at 1 µg/mL for 1h at RT in 5% NFDM/TBST.
Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western Blot of ST2.
Load: 293 cell lysate.
Primary Antibody: Anti-ST2 at 1µg/mL for 1h at RT in 5% NFDM/TBST. Lane A: In the absence of blocking peptide Lane B: In the presence of blocking peptide.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western Blot of ST2.
Load: 15 µg of Mouse Heart lysate.
Primary antibody: anti-ST2 at 1µg/mL for 1h at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

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